



BEHIND THE SCENES
IN SPACE DURING HISTORIC
SPACE X DM-2 LAUNCH AND DOCKING



1
00:00:05,910 --> 00:00:02,790
okay it's a historic day for

2
00:00:07,430 --> 00:00:05,920
our nation and the international space

3
00:00:10,310 --> 00:00:07,440
program really

4
00:00:13,110 --> 00:00:10,320
and uh it's a second attempt for bob and

5
00:00:14,070 --> 00:00:13,120
doug to launch on the crew dragon

6
00:00:17,029 --> 00:00:14,080
and

7
00:00:19,029 --> 00:00:17,039
behind this hatch is where they will uh

8
00:00:21,029 --> 00:00:19,039
dock tomorrow i wanted to talk a little

9
00:00:21,830 --> 00:00:21,039
bit about this very special flag right

10
00:00:23,830 --> 00:00:21,840
here

11
00:00:26,630 --> 00:00:23,840
this flag

12
00:00:29,990 --> 00:00:26,640
was first flown on sts-1

13
00:00:32,870 --> 00:00:30,000

with john young and bob crippen it was

14

00:00:35,830 --> 00:00:32,880

then later flown at the end of the space

15

00:00:38,310 --> 00:00:35,840

shuttle program on sts-135

16

00:00:40,270 --> 00:00:38,320

of which uh doug happened to be a crew

17

00:00:43,350 --> 00:00:40,280

member on that mission as well

18

00:00:45,910 --> 00:00:43,360

scs-135 brought this flag to the space

19

00:00:49,430 --> 00:00:45,920

station with the intent that it would be

20

00:00:51,750 --> 00:00:49,440

returned with the return of the first

21

00:00:54,150 --> 00:00:51,760

commercial crew rocket that would launch

22

00:00:55,990 --> 00:00:54,160

from florida so at the conclusion of

23

00:00:58,549 --> 00:00:56,000

their stay on board the

24

00:00:59,830 --> 00:00:58,559

space station with us they will return

25

00:01:02,229 --> 00:00:59,840

this flag

26

00:01:04,549 --> 00:01:02,239

with them and uh and kind of complete

27

00:01:07,270 --> 00:01:04,559

the journey if you will down in florida

28

00:01:08,149 --> 00:01:07,280

right now they they had the go no go for

29

00:01:11,030 --> 00:01:08,159

uh

30

00:01:13,750 --> 00:01:11,040

for launch historic day

31

00:01:16,070 --> 00:01:13,760

i'm super honored and excited to be part

32

00:01:17,990 --> 00:01:16,080

of part of it in a small way and uh and

33

00:01:19,830 --> 00:01:18,000

greet these guys when they come

34

00:01:22,390 --> 00:01:19,840

through the hatch means a lot to

35

00:01:23,910 --> 00:01:22,400

everybody means a lot to a lot of people

36

00:01:24,950 --> 00:01:23,920

a lot of hard work

37

00:01:27,830 --> 00:01:24,960

all right

38

00:01:29,910 --> 00:01:27,840

all the best from uh node two of the

39

00:01:32,550 --> 00:01:29,920

international space station the very

40

00:01:38,870 --> 00:01:32,560

forward part of our ship this is the bow

41

00:01:42,469 --> 00:01:40,789

count i'll take it away john so it's

42

00:01:44,789 --> 00:01:42,479

spacex launch day

43

00:01:47,350 --> 00:01:44,799

minus 13 minutes 30 seconds you heard it

44

00:01:48,789 --> 00:01:47,360

t-minus 13 minutes 30 seconds count down

45

00:01:50,870 --> 00:01:48,799

continuing the load

46

00:02:00,230 --> 00:01:50,880

feel onto the first stage that should

47

00:02:04,550 --> 00:02:02,709

on the first and second stage gets us

48

00:02:06,469 --> 00:02:04,560

just like we do with liquid oxygen the

49

00:02:07,510 --> 00:02:06,479

maximum amount into the storage we've

50

00:02:09,830 --> 00:02:07,520

got uh

51
00:02:11,910 --> 00:02:09,840
cameras going in multiple windows

52
00:02:13,750 --> 00:02:11,920
yvonne has a camera in there i have a

53
00:02:16,630 --> 00:02:13,760
camera in there fairly quiet got a

54
00:02:19,270 --> 00:02:16,640
camera in the in the wharf window so

55
00:02:21,670 --> 00:02:19,280
there's right now

56
00:02:23,830 --> 00:02:21,680
he's setting up a camera and we're

57
00:02:26,309 --> 00:02:23,840
trying to figure out the best angles to

58
00:02:29,910 --> 00:02:26,319
get pictures

59
00:02:33,830 --> 00:02:32,229
spacex dragon displays are configured

60
00:02:35,430 --> 00:02:33,840
for launch

61
00:02:37,430 --> 00:02:35,440
displays configured for

62
00:02:39,270 --> 00:02:37,440
awesome doug on behalf of the entire

63
00:02:40,630 --> 00:02:39,280

spacex team it's been a huge honor to

64

00:02:44,150 --> 00:02:40,640

help you get ready for today's historic

65

00:02:46,790 --> 00:02:44,160

mission thanks jay uh it is absolutely

66

00:02:49,990 --> 00:02:46,800

our honor to be part of this uh

67

00:02:52,470 --> 00:02:50,000

huge effort to get the united states

68

00:02:55,750 --> 00:02:52,480

back in the launch business uh we'll uh

69

00:02:59,589 --> 00:02:55,760

talk to you for more but thank you

70

00:03:04,070 --> 00:03:02,070

and then the field love will complete

71

00:03:06,229 --> 00:03:04,080

so close

72

00:03:13,270 --> 00:03:06,239

350. they haven't in one minute we're

73

00:03:20,949 --> 00:03:16,229

afghan's final setup started

74

00:03:26,229 --> 00:03:24,070

three and a half minutes to watch

75

00:03:42,869 --> 00:03:26,239

and the strongback is now reclining away

76
00:03:49,270 --> 00:03:45,270
great pictures right over the pad come

77
00:03:50,949 --> 00:03:49,280
on dragon spacex go for launch yeah

78
00:03:53,589 --> 00:03:50,959
spacex dragon

79
00:03:59,190 --> 00:03:53,599
go for launch let's light this candle

80
00:04:03,509 --> 00:04:01,589
here we go

81
00:04:09,670 --> 00:04:03,519
get it get it get it stage one tanks

82
00:04:11,589 --> 00:04:10,710
head

83
00:04:12,630 --> 00:04:11,599
nine

84
00:04:13,670 --> 00:04:12,640
eight

85
00:04:14,710 --> 00:04:13,680
seven

86
00:04:15,670 --> 00:04:14,720
six

87
00:04:16,629 --> 00:04:15,680
five

88
00:04:17,749 --> 00:04:16,639

four

89

00:04:18,550 --> 00:04:17,759

three

90

00:04:21,270 --> 00:04:18,560

two

91

00:04:24,110 --> 00:04:21,280

one zero ignition

92

00:04:24,120 --> 00:04:40,710

says yeah

93

00:04:40,720 --> 00:04:51,670

20

94

00:04:51,680 --> 00:05:02,950

under this historic mission

95

00:05:07,909 --> 00:05:05,110

actually just within a few seconds of

96

00:05:12,710 --> 00:05:10,150

and it's right about 12 minutes or when

97

00:05:14,950 --> 00:05:12,720

the dragon will separate

98

00:05:16,950 --> 00:05:14,960

looks like we saw a zero g indicator

99

00:05:19,510 --> 00:05:16,960

floating around there they they do

100

00:05:21,110 --> 00:05:19,520

ensure that the vehicles okay

101
00:05:22,230 --> 00:05:21,120
we're gonna have two new crewmates here

102
00:05:23,909 --> 00:05:22,240
tomorrow

103
00:05:25,909 --> 00:05:23,919
well a few things have to happen between

104
00:05:29,830 --> 00:05:25,919
now and then but that was a big neighbor

105
00:05:32,710 --> 00:05:29,840
using cold gas thrusters

106
00:05:33,590 --> 00:05:32,720
well it's dm2 docking morning just woke

107
00:05:35,270 --> 00:05:33,600
up

108
00:05:37,110 --> 00:05:35,280
and uh

109
00:05:42,950 --> 00:05:37,120
gotta hurry up and get my exercise in

110
00:05:46,150 --> 00:05:44,550
super exciting

111
00:05:47,749 --> 00:05:46,160
what an awesome day was yesterday to

112
00:05:49,830 --> 00:05:47,759
watch that launch go

113
00:05:55,670 --> 00:05:49,840

knowing that they're coming here

114

00:06:01,350 --> 00:05:59,270

all right let's go knock out my exercise

115

00:06:03,510 --> 00:06:01,360

they're right holding right at 200

116

00:06:06,390 --> 00:06:03,520

meters right now they're just

117

00:06:08,469 --> 00:06:06,400

wrapping up manual flight test

118

00:06:10,230 --> 00:06:08,479

objectives

119

00:06:12,390 --> 00:06:10,240

and uh

120

00:06:14,469 --> 00:06:12,400

and then in a short a short little bit

121

00:06:16,390 --> 00:06:14,479

we'll start into approach

122

00:06:18,469 --> 00:06:16,400

two

123

00:06:20,950 --> 00:06:18,479

and i've got this procedure here which

124

00:06:24,070 --> 00:06:20,960

we're following along right now we're in

125

00:06:27,990 --> 00:06:24,080

block charlie

126

00:06:28,000 --> 00:06:46,710

the vehicle mode is manual flight

127

00:06:51,749 --> 00:06:49,270

there they are

128

00:06:53,990 --> 00:06:51,759

they copy and concur

129

00:06:56,390 --> 00:06:54,000

and that's 200 meters from this center

130

00:06:57,670 --> 00:06:56,400

line of this base of the space station

131

00:06:59,589 --> 00:06:57,680

and uh

132

00:07:02,390 --> 00:06:59,599

as soon as i get inside of 200 meters

133

00:07:04,070 --> 00:07:02,400

here i'm gonna switch

134

00:07:16,469 --> 00:07:04,080

to a different reference point and we'll

135

00:07:22,309 --> 00:07:19,430

we do plan to hold briefly at waypoint

136

00:07:23,749 --> 00:07:22,319

two so reminder that crew visors down is

137

00:07:25,589 --> 00:07:23,759

are not required

138

00:07:27,830 --> 00:07:25,599

until the ground is preparing to the

139

00:07:30,150 --> 00:07:27,840

fancy final approach

140

00:07:32,150 --> 00:07:30,160

chris you can monitor now for step two

141

00:07:34,309 --> 00:07:32,160

that's step two and one decimal one zero

142

00:07:35,589 --> 00:07:34,319

four crew dragon approach and retreat

143

00:07:38,230 --> 00:07:35,599

monitor

144

00:07:41,029 --> 00:07:38,240

copy step two of work

145

00:07:42,390 --> 00:07:41,039

steps three and four is complete

146

00:08:02,790 --> 00:07:42,400

cruise on the international space

147

00:08:02,800 --> 00:08:07,670

all right 20 meters here we go

148

00:08:07,680 --> 00:08:12,469

dragon copy is all on a big loop

149

00:08:16,070 --> 00:08:14,309

go for docking

150

00:08:17,990 --> 00:08:16,080

that's a good one

151
00:08:19,430 --> 00:08:18,000
four three and four and one decimal one

152
00:08:21,670 --> 00:08:19,440
zero four three dragon approaching

153
00:08:34,389 --> 00:08:21,680
retreat monitor copy steps three and

154
00:08:38,870 --> 00:08:36,709
they're sitting right there 20 meters

155
00:08:53,190 --> 00:08:38,880
from the docking port

156
00:08:53,200 --> 00:08:56,550
teacher's name

157
00:09:01,190 --> 00:08:59,590
okay in this time we should be in

158
00:09:04,310 --> 00:09:01,200
the customer

159
00:09:05,750 --> 00:09:04,320
yeah by by here right here okay

160
00:09:06,829 --> 00:09:05,760
just not

161
00:09:08,389 --> 00:09:06,839
it's it's

162
00:09:11,750 --> 00:09:08,399
ordered

163
00:09:12,790 --> 00:09:11,760

it takes a long time for the hooks

164

00:09:16,949 --> 00:09:12,800

i was

165

00:09:16,959 --> 00:09:20,389

i got some

166

00:09:20,399 --> 00:09:31,750

what oh on camera

167

00:09:38,389 --> 00:09:34,230

dragon spacex docking sequence is

168

00:09:43,590 --> 00:09:40,070

spacex dragon

169

00:09:46,310 --> 00:09:43,600

copy stopped incomplete

170

00:09:48,630 --> 00:09:46,320

just like to say that it's been a

171

00:09:49,509 --> 00:09:48,640

real honor to be just a small part of

172

00:09:51,990 --> 00:09:49,519

this

173

00:09:54,230 --> 00:09:52,000

nine year endeavor since the last time

174

00:10:05,269 --> 00:09:54,240

the united states spaceship has stopped

175

00:10:09,670 --> 00:10:07,430

dragon arriving

176
00:10:11,990 --> 00:10:09,680
the crew of expedition 63 is honored to

177
00:10:13,030 --> 00:10:12,000
welcome dragon in the commercial crew

178
00:10:14,790 --> 00:10:13,040
program

179
00:10:16,949 --> 00:10:14,800
to uh welcome aboard the international

180
00:10:18,790 --> 00:10:16,959
space station bob and doug glad to have

181
00:10:23,350 --> 00:10:18,800
you as part of the crew well done bravo

182
00:10:23,360 --> 00:10:28,710
never happy thank you

183
00:10:43,269 --> 00:10:30,829
we have a dragon

184
00:10:53,990 --> 00:10:44,829
hello

185
00:11:06,710 --> 00:10:55,910
yeah

186
00:11:06,720 --> 00:11:21,290
so

187
00:11:21,300 --> 00:11:26,829
[Music]

188
00:11:26,839 --> 00:11:40,949

so sounds like gopher hatch opening

189

00:11:48,949 --> 00:11:43,110

here comes the handle

190

00:11:48,959 --> 00:11:55,030

wow it's quiet

191

00:11:55,040 --> 00:12:01,670

you can see the mechanisms rotating

192

00:12:01,680 --> 00:12:11,590

clicks they're at the end of the travel

193

00:12:16,790 --> 00:12:13,509

what's up big dogs how are you doing how

194

00:12:18,389 --> 00:12:16,800

are you how you doing

195

00:12:20,550 --> 00:12:18,399

that's a smooth hatch man and we

196

00:12:24,389 --> 00:12:20,560

couldn't even hear the mechanisms moving

197

00:12:26,710 --> 00:12:24,399

i didn't even feel like doc

198

00:12:28,629 --> 00:12:26,720

we have bob bankin from spacex demo 2

199

00:12:31,430 --> 00:12:28,639

mission entering the international space

200

00:12:31,440 --> 00:12:43,269

followed by doug hurley

